

Message

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Sent: 8/29/2017 3:05:27 PM
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Subject: PFAS - 3 things - free SERDP/ESTCP webinar and Koc value calculations from VT
Attachments: PFOS_PFOA_Kd.xls

FYI – calculated Koc from VT & a free webinar September 7th – see below...

- 1- a reminder that there is NO states/EPA call in September. I'll send info about October's call when I return from vacation later in September...
- 2- More info about the webinar is below (scroll down) and at: <https://serdp-estcp.org/Tools-and-Training/Webinar-Series/09-07-2017>
- 3- From Richard Spiese at VT DEC: These values are important in determining Koc values at our sites.

We did some further assessment on the soil data from the Bennington College investigation that you might find interesting. Here is what we calculated for Koc based on PFOA and TOC concentrations (see attached table for calculations)

PFOA Csi (ug/kg)	Csplp(ug/L)	Csf (ug/kg)	Kd (L/kg)	Koc (L/kg)	
0.73	0.021	0.31	14.8	1779	till
2.9	0.096	0.98	10.2	3403	till
0.81	0.026	0.29	11.2	3380	till
0.96	0.04	0.16	4.0	3636	till
1.8	0.064	0.52	8.1	1505	sand
3.2	0.051	2.18	42.7	8220	sand

The Bennington College soil has higher calculated Kocs than used in SBPP/Barr CSM model. As we suspected, it is possible that other constituents (cations, iron oxides, etc) are involved in the sorption processes. SGPP/Barr used table C-2 below for Koc in their vadose zone model. If this trend continues with the SBPP SI data, It will be interesting to see what adjustments they make to their model going forward, based on all the new data they collect.

Table C-2 Transport Parameters

Parameter	Soil Material	Value
K_{oc}	All	550 cm ³ /g
f_{oc}	Clay loam (top 10 cm of the model)	0.025 g/g
f_{oc}	Sandy clay loam (from 10 to 36 cm in the model)	0.005 g/g
f_{oc}	Sand (from 36 cm to the bottom of the model)	0.0005 g/g

From: SERDP-ESTCP [<mailto:no-reply@serdp-estcp.org>]

Subject: SERDP and ESTCP Webinar Series - Research and Development Needs for Management of DoD's PFAS Contaminated Sites

REMINDER

SERDP & ESTCP Webinar Series: Call for Registration

Research and Development Needs for Management of DoD's PFAS
Contaminated Sites

**Ms. Maureen Sullivan, Deputy Assistant Secretary of Defense for Environment,
Safety and Occupational Health**
Dr. Andrea Leeson, SERDP and ESTCP
Dr. David Sedlak, University of California, Berkeley

Thursday, September 7, 2017
12:00 PM ET (9:00 AM PT)

[Register Now!](#)

Join SERDP and ESTCP on Thursday, September 7 for a webinar on research and development needs for management of DoD's PFAS contaminated sites. First, Ms. Maureen Sullivan, Deputy Assistant Secretary of Defense for Environment, Safety and Occupational Health, will describe DoD policy and management issues for perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA). Second, Dr. Andrea Leeson, Deputy Director of SERDP and ESTCP, will present an overview of SERDP and ESTCP's efforts to better understand per- and poly-fluoroalkyl substances (PFAS) impacts, fate and transport, and treatment with a focus on outcomes of a recent expert workshop on PFAS-related research, development and demonstration needs. Finally, Professor David Sedlak of the University of California, Berkeley, will present an overview of PFAS remediation in groundwater using in situ chemical oxidation. To view speaker biographies and abstracts, and to register for this free webinar, please visit <https://serdp-estcp.org/Tools-and-Training/Webinar-Series/09-07-2017>.

About the SERDP and ESTCP Webinar Series

The overarching goal of the webinar series is to promote the transfer of innovative, cost-effective, and sustainable solutions developed by SERDP and ESTCP. The series targets end users, including practitioners, the regulatory community, and researchers with the objective of providing cutting-edge and practical information from sponsored research and technology demonstrations in an easily accessible format and at no cost. To view the complete schedule of

upcoming webinars, please visit <https://www.serdp-estcp.org/Tools-and-Training/Webinar-Series>.